

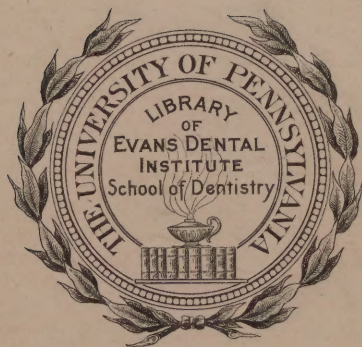
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IA DENTAL COLLEGE

AL SURGERY ROSTER.



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Philadelphia Dental College

and

Hospital of Oral Surgery.



ROSTER

... FOR INFORMATION AND USE OF STUDENTS ...



THE purpose of this roster of the lectures and of laboratory studies and work is to afford students plain and full understanding of what is expected and required of them. As each study and term marked on the roster is accomplished to the satisfaction of professors and demonstrators, excuse from its further pursuit is furnished, and advance made to the succeeding one. Rosters bearing the excusing signature constitute important factors in the final examination.

It is trusted that students will recognize in the roster directions which deny excuse for idle days or neglect of duties. It must be felt that where so many are assembled together as constitute the college class, it is a necessity for the individual good that each member take on himself to a certain extent his own direction. The roster shows the work of every day, and names the teachers under whose direction the work is practised. To consult it is all that is necessary for direction as to the duties of any day or period. A student who assumes such direction of himself will find his practical education fully completed at the end of the general term. The demonstrators of the various departments are on duty daily, and need only to be applied to that their best services be secured.

13081

Officials.

President of Board of Trustees, GEN. JAMES A. BEAVER, LL. D., Ex-Gov. of Pennsylvania.

Secretary of Board of Trustees, CHARLES P. TURNER, A. M., M. D.

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J. FOSTER FLAGG, D. D. S., Professor of Dental Pathology and Therapeutics.

HENRY I. DORR, M. D., D. D. S., Professor of Practice of Dentistry, Anaesthetics, and Anesthesia.

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JAMES E. GARRETSON, M. D., D. D. S., Professor of Anatomy and Surgery. Surgeon to the Oral Clinic.

Clinicians, Instructors, and Demonstrators.

Clinicians in Oral Surgery.

JAMES E. GARRETSON, M. D., D. D. S.

MATTHEW H. CRYER, M. D., D. D. S.

Clinicians in General Surgery.

JAMES E. GARRETSON, M. D.

HENRY C. BOENNING, M. D.

Lecturer.

LEOPOLD GREENBAUM, M. D., D. D. S., Materia Medica.

Demonstrators.

J. O. ROTHWELL, D. D. S., Practice of Dentistry.

ROBT. H. NONES, D. D. S., Prosthetic Dentistry.

A. DEWITT GRITMAN, D. D. S., Orthodontia and Crown- and Bridge-work.

OTTO E. INGLIS, D. D. S., Operative Dentistry and Dental Therapeutics.

HENRY C. BOENNING, M. D., Anatomy.

H. A. ICKES, D. D. S., Assistant in Clinical Service.

ISIDORE LETT, D. D. S., Assistant in Clinical Service.

H. H. BOOM, M. D., Analytical Chemistry.

E. B. SANGREE, A. M., M. D., Histology.

J. W. MOFFITT, D. D. S., Prosthetic Dentistry.

G. C. CARDWELL, D. D. S., Operative Dentistry.

M. MARKLEY, Technics.

Clinicians.

JAMES McMANUS, D. D. S.,

W. G. A. BONWILL, D. D. S.,

C. E. FRANCIS, D. D. S.,

F. D. GARDINER, D. D. S.,

C. R. JEFFERIS, D. D. S.,

DANIEL N. McQUILLEN, D. D. S.,

S. ELDRED GILBERT, D. D. S.,

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W. J. MAGILL, D. D. S.,

JOSEPH P. WYMAN, D. D. S.,

WM. CARR, M. D.,

JOSEPH R. C. WARD, D. D. S.,

H. H. BURCHARD, M. D., D. D. S.,

S. B. LUCKIE, D. D. S.,

WM. N. DANIELS, D. D. S.,

JAMES R. F. FITZPATRICK, D. D. S.

Lectures.

Monday,	2.45 P. M.—FLAGG,	3.45 P. M.—STELLWAGEN,	4.45 P. M.—HOWELL.
Tuesday,	2.45 “ —FLAGG,	3.45 “ —STELLWAGEN,	4.45 “ —GUILFORD.
Wednesday,	2.45 “ —DORR,	3.45 “ —STELLWAGEN,	4.45 “ —HOWELL.
Thursday,	2.45 “ —FLAGG,	3.45 “ —GARRETSON,	4.45 “ —GUILFORD.
Friday,	2.45 “ —DORR,	3.45 “ —GARRETSON,	4.45 “ —HOWELL.
Friday,	7.00 “ —GUILFORD.		
Saturday,	12.30 “ —GARRETSON,	Oral Surgical Clinic.	
Saturday,	2.30 “ —Operative and Prosthetic Dental Clinics, by PROF. GUILFORD,	assisted by Clinical Instructors.	

Lecture Requirements.

Freshmen.

Anatomy, Physiology, Anæsthetics, and Anæsthesia.

Juniors.

Chemistry, Operative and Prosthetic Dentistry, Pathology and Therapeutics, Anatomy and Principles of Surgery, Physiology, Anæsthetics and Anæsthesia.

Seniors.

Chemistry and Materia Medica, Operative and Prosthetic Dentistry, Dental Pathology and Therapeutics.

SPECIAL CLINICS for the study and treatment of Diseases of the Teeth are held by PROF. STELLWAGEN 12 M. Tuesdays and Wednesdays, by PROF. FLAGG 10 A. M. to 12 M. Thursdays, and on Crown- and Bridge-work by PROF. GUILFORD 8 A. M. Wednesdays and Saturdays.

LECTURES ON DESCRIPTIVE ANATOMY, by DR. BOENNING, are given Monday and Wednesday evenings, at 8 o'clock, and on Materia Medica, Wednesday evenings, at 7 o'clock, by DR. GREENBAUM, and on Tuesday evenings, at 8 o'clock, by DR. SANGREE, on Histology.

EXAMINATIONS. First Year.—Progress in Anatomy, Physiology, Anæsthetics, and Anæsthesia. Second Year.—Progress in Chemistry, Prosthetic and Operative Dentistry, Pathology and Therapeutics, and final in Anatomy, Principles of Surgery, Physiology, Anæsthetics, and Anæsthesia. Third Year.—Final in Chemistry and Materia Medica, Practical, Prosthetic, and Operative Dentistry, and Dental Pathology and Therapeutics.

Practical Dental Classes Daily from 9 A. M. to 2.30 P. M., and for Seniors until 3.30 P. M.

Chemical Laboratory.

Juniors, {	Section A, Monday, 8 to 9 A. M.	Seniors, {	Section A, Thursday, 8 to 9 A. M.
{	“ B, Tuesday, “	{	“ B, Friday, “

Roster of Laboratory Studies and Work.

FRESHMAN YEAR.

This roster is the property of Mr....., Freshman,
who stands dutiable or excused as here unmarked or marked.

..... Dean.

1. Technic work. Instructor, Mr. Markley.

Prosthetic Dentistry.

Instructors, Drs. Nones, Gritman, and Moffitt.

2. Preparation and uses of wax for impression purposes.
3. Preparation and uses of plaster of Paris for impression purposes.
4. Taking impressions of common objects with wax.
5. Taking impressions of the mouth with wax.
6. Taking impressions of common objects with plaster of Paris.
7. Making casts of common objects.
8. Taking impressions of the mouth with plaster.
9. Making plaster models of the mouth.
10. Making partial vulcanite plate with one or two teeth.
11. Making partial vulcanite plate with four or six teeth.
12. Repairing crack and break in vulcanite plate and replacing broken teeth.
13. Making full upper or lower vulcanite denture.
14. Making metal dies and counter-dies.
15. Making partial metal plate (single thickness) with clasps.
16. Making partial metal plate (double thickness) with vacuum chamber.
17. Grinding and soldering single teeth on partial plates.
18. Making full denture on metal with vulcanite attachment.
19. General laboratory work.

The Freshman year is under the exclusive control of Prof. Guilford.

JUNIOR YEAR.

Instructors, Drs. Rothwell, Nones, Gritman, Inglis, Boom, Moffitt, and Cardwell.

This roster is the property of Mr., Junior,
who stands dutiable or excused as here unmarked or marked.

1. Preparation of cavities in extracted teeth and filling
with non-cohesive tin-foil. Prof. Stellwagen.
2. Filling of twenty-four cavities with zinc phosphate,
gutta percha, and amalgam. Prof. Flagg.
3. Orthodontia technics. Prof. Guilford.
4. Preparation of roots, and making and mounting of
six dowel crowns. Prof. Guilford.
5. The making and mounting of three hollow metal
crowns. Prof. Guilford.
6. Piece of bridge-work, including two or more sus-
pended crowns on teeth out of the mouth. Prof.
Guilford.
7. Operative practice on patients. Prof. Dorr.
8. Anæsthetics a anæsthesia. Prof. Dorr.
9. Making of depositing plate. Prof. Dorr.
10. Dissecting. Prof. Garretson.
11. Work in chemical laboratory. Prof. Howell.

SENIOR YEAR.

Demonstrators, Drs. Rothwell, Nones, Gritman, Inglis, Boom, Moffitt, and Cardwell.

1. Making of practical case. Prof. Dorr.
2. Making requisite graduation fillings. Prof. Dorr.
3. Work in chemical laboratory. Prof. Howell.
4. General practice of dentistry. Profs. Flagg, Guilford,
Dorr, and Stellwagen.
5. Making alloys and their preparation for fillings.
Prof. Flagg.

NOTE.—Examination of Junior and Senior practical work will be made by Prof. DORR, from 11.30 A. M.
to 1 P. M. Tuesdays and Saturdays.

LIST OF TECHNIC INSTRUMENTS.

FRESHMAN YEAR.

6 Engine Burs, Nos. 2, 5, 36, 38, 92, 95,	\$1 13
1 Rev. Engine Bit Holder,	75
2 C. S. Chisels, Nos. 7, 9,	70
1 Engine Drill, No. 102,	17
2 L. H. Arrington Canal Pluggers, Nos. 40, 36,	50
4 C. S. Handles, No. 2,	42
5 C. S. Excavators, Nos. 4, 27, 76, 8, 143,	60
1 Bench Vise,	30
1 Stick Sealing Wax,	25
1 Large File and Handle,	16
1 Alcohol Lamp, No. 1,	30
1 Wax Spatula, No. 7,	50
1 Mechanical Saw Frame,	60
1/2 doz. Mechanical Saws, wide,	10
1 copy Weeks' Technics,	2 00

(Net, \$8.34)

\$9 48

1/2 doz. Barbed Nerve Broaches.

1 Nerve Broach Holder.

Instruments Required to be Owned by a Student.

1st Year.

For Laboratory Work.

*1 Alcohol Lamp, No. 1 or 2, . . .	\$0 40
*1 Wax Spatula, No. 2,	40
1 Plaster Spatula, 4-inch,	25
1 Plaster Knife,	15
3 Upper Impression Trays, Nos. 2, 3, 12,	75
3 Lower Impression Trays, Nos. 15, 18, 19,	95
1 Pair Calipers,	25
1 Articulator, Plain Line (or No. 2, \$2.00),	90
2 Vulcanite Scrapers, Nos. 12, 13, . .	50
1 Kinsley's Vulcanite Finisher, No. 6,	30
1 Vulcanite File, Double End, Half-Round,	28
1 Large Felt Cone,	40
1 Brush-Wheel, No. 30,	44
1 Stiff Brush-Wheel, No. 5,	18
1 Corundum Wheel, No. 2, Round Edge, Mounted,	29
1 Corundum Wheel, No. 5, $\frac{1}{4}$ -inch, Mounted,	41
1 Corundum Wheel, No. 5, $\frac{3}{8}$ -inch, Fine Grit, Mounted,	45
1 Vulcanite Flask,	1 00
1 Wrench for Flask,	10
1 Plate-Brush (stiff), 4 Rows, . . .	45
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	\$8 85

For Metal Work.

1 Double-End Plate Burnisher, . . .	\$0 75
1 Riveting Hammer,	70
1 Pair Wire Nippers (Solid Steel), . .	80
1 Pair Plate Nippers,	2 75
1 Pair Plate Shears, Nut-fastening, .	1 25
1 Pair Round-Nose Pliers, $4\frac{1}{2}$ -inch, .	40
1 Pair Flat-Nose Pliers, $4\frac{1}{2}$ -inch, . .	40
1 Plate Punch for Rivet Holes, . . .	2 25
1 Pair Solder Tweezers,	10
1 Horn Mallet for Swaging Plates, . .	38
1 Half-Round File, 5-inch,	35
1 Flat File, $3\frac{1}{2}$ -inch,	18
1 Brush-Wheel, No. 2,	15
1 Scotch Stone,	8
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\$10 54

2d and 3d Years.

For Dispensary Operations.

	Long Handle.
1 Palmer's Nerve Instrument, No. 1, \$0	45
*2 Arrington's Nerve Instruments, Nos. 23, 40,	50
9 Excavators, Nos. 6, 8, 10, 15, 86, 89, 115, 161, 162,	1 88
4 Flagg's Plastic Filling Instruments, File-cut Ball End, Nos. 12 (Spatula), 30, 34, 36,	1 65
8 Pluggers, Nos. 15, 38, 78, 195, 196, 293, 301, 410,	4 25
1 D. D. Smith's Approximal Trimmer, No. 22,	60
1 Burnisher, No. 35,	60
1 Explorer, No. 7,	21
*2 F. C. Chisels, Nos. 2, 6,	1 00

\$11 14

1 Doz. Nerve Broaches, assor'd, \$0	75
1 Lead Mallet (or Lignum Vitæ Mallet, 30 cents),	1 50
1 Pair College Pliers,	1 00
1 Ebony Handle Mouth-Mirror, Plain, Large,	1 00
1 Chip Syringe,	75
1 Metallic Syringe,	1 00
$\frac{1}{3}$ -Doz. Separating Files,	34
1 Rubber-Dam Holder, with Buffalo-Horn Guard,	1 00
1 Wedge-Cutter, nickel plated, . .	3 00
1 Ebony Handle Gum Lancet, No. 1,	60
1 Pair Foil Scissors, Steel, Bright, .	1 00
1 Kaerber Saw Frame, No. 1, and $\frac{1}{2}$ -doz. Saws,	73
1 Flagg's Glass Mortar and Pestle,	75
1 Arkansas Stone (in box 75 cts.), .	35
1 Bottle Nerve Paste,	50
1 Bottle Sandarac Varnish,	25
1 Bundle Orange Wood,	10
1 Ounce Spunk,	20
$\frac{1}{2}$ -Quire French Bibulous Paper, .	19
1 Doz. Emery Strips,	4

\$26 10

Student's Case, \$6.00—Optional.

*If instruments marked thus have been purchased for the technic course, they can be omitted from above lists.

Text=Books Recommended.

First Year.

Stellwagen's-Coleman's Manual of Dental Surgery.

Grey's Anatomy, or

Boenning's Anatomy.

Schofield's Physiology, or

Foster's Physiology.

Bartley's or Wilson's Chemistry.

Turnbull or Buxton's Anæsthetics.

Richardson's Mechanical Dentistry.

Thomas' Medical Dictionary, or

Billing's Medical Dictionary, or

Quain's Medical Dictionary.

Weeks' Technics.

Cost, \$15.00 to \$20.00.

Second and Third Years.

Garretson's System of Oral Surgery.

United States Dispensatory, or

Shoemaker's Materia Medica, Pharmacology and Therapeutics.

Da Costa's Medical Diagnosis.

Cost, about \$18.00.

Third Year.

Flagg's Plastics.

Guilford's Orthodontia.

Inglis' Compend of Dental Pathology and Therapeutics.

Cost, about \$6.00.

The price of books varies with the binding. Any one, or all here named, may be ordered through a local bookseller or be procured at a dental depot.

Other works of reference related to the College course from which a selection may be made, as requirements make themselves felt, are Harris' Principles and Practice of Dental Surgery, Kingsley's Oral Deformities, Cryer's Oral Anatomy, Guilford's Nitrous Oxide, Gilbert on Vulcanite, Paget's Surgical Pathology, Miller's Principles of Surgery, Agnew's System of Surgery, and books on the Practice of Medicine.

Synopsis of Lectures on Operative Dentistry.

PROF. GUILFORD.

Preliminary Fall Course (September).

DENTAL NOTATION AND NOMENCLATURE.

PHYSICAL CHARACTERS OF THE HUMAN TEETH.

Winter Course (begins October 1st).

TEETH.—Definition. Those of Vertebrates, Mammals, Man; where situated, uses, kinds, number.

DESCRIPTIVE ANATOMY of the human teeth. Individual forms and markings. Arrangement, relation, and manner of occlusion. Deciduous and permanent.

HARD AND SOFT TISSUES COMPOSING TEETH.

CARIES.—Cause, character, and method of treatment.

INSTRUMENTS.—Steel, its character, methods of production, shaping, tempering polishing.

FORMS OF INSTRUMENTS.—Excavators, pluggers, chisels, burs, files, etc. Their respective uses.

ENGINES.—Kinds, and principles on which operated. Accessories.

EXAMINATION OF THE TEETH.—Methods, instruments, appliances.

PREPARATION FOR FILLING.—Separation, wedging (slow or rapid), removal of salivary deposits, etc.

HYPERSENSITIVE DENTINE.—Causes and treatment by sedatives, obtundents, desiccation, etc.

EXCLUSION OF MOISTURE.—Napkins, rubber-dam, and method of application. Accessory appliances, clamps, separators, etc.

PREPARATION OF CAVITIES.—Instruments and manner of use. Opening cavities, removal of decay, shaping for retention of filling and final dressing.

GOLD AS A FILLING MATERIAL.—Methods and forms of preparation. Foil, crystal, rolled, cylinders, pellets, etc.; their respective merits and methods of introduction. COHESIVE AND NON-COHESIVE GOLD. Their relative values and discrimination in use.

TIN.—Its character, forms of preparation and employment.

INSTRUMENTS employed in introducing gold and tin. Mallets; various kinds, uses and merits.

OPERATION OF FILLING.—In detail from cavities of the simplest to those of the most complex character.

FINAL FINISHING OF FILLING.—Outline and character of surface. Methods and appliances.

REPAIR OF FILLINGS.—COMPOSITE FILLINGS.

PORCELAIN AND GLASS INLAYS AND RESTORATIONS.

TREATMENT AND FILLING OF ROOT CANALS.—Perforation of root and its management. Amputation of root apex.

PREPARATION AND FILLING OF DECIDUOUS TEETH.

SALIVARY CALCULUS AND PYORRHEA ALVEOLARIS.

TRANS-, RE- AND IMPLANTATION OF TEETH.

DISCOLORATION AND BLEACHING.—Causes, and chemical action of agents used. Methods of employment.

EXTRACTION OF TEETH.—Principles governing; character of operation. Proper use of instruments—forceps, elevators, etc. Accidents, hemorrhage, etc.

ORTHODONTIA.—Definition. Etiology. Advisability in different cases. Best age for its accomplishment. Principles governing movement of teeth. Extraction as an aid. Appliances. Methods. Specific forms of irregularity and their treatment in detail, illustrated by models with appliances in position. Construction and management of devices. Retention.

Synopsis of Lectures on Dental Prosthesis.

PROF. GUILFORD.

PREPARATION OF MOUTH.—Extraction and after-treatment.

IMPRESSIONS.—Trays. Materials and manner of preparation and use. Partial and full. Difficult cases.

MODELS OR CASTS.

DIES AND COUNTER-DIES.—Various metals; their properties and methods of using them. Molding, dipping, etc. Formulæ for alloys.

SWAGING.—Partial. Full. Upper. Lower. Vacuum-chambers.

CLASPS.—Forming and attaching same.

BITE AND ARTICULATION.—Full and partial.

SELECTION AND ARRANGEMENT OF TEETH.—Grinding, etc.

INVESTING AND SOLDERING.—Finishing. Repairing.

PORCELAIN TEETH.—Their components and method of manufacture.

CONTINUOUS GUM.—Its qualities and manner of construction.

VULCANITE.—Properties. Manipulation. Vulcanization. Finishing. Refitting. Repairing. Steam pressures and temperatures.

CELLULOID.—Composition. Manipulation.

CAST METAL BASES.

ALUMINUM.—Relative value as a base. Methods of manipulation.

HYGIENIC RELATIONS OF ARTIFICIAL DENTURES.

OBTURATORS AND ARTIFICIAL VELA.

REFINING OF GOLD. Various methods in use.

ALLOYS FOR PLATE AND SOLDERS. Formulæ.

CROWN- AND BRIDGE-WORK.—Treatment and Preparation of Root. Shaping for Crown. Porcelain Crowns. Logan, Bonwill, etc. Selecting, Grinding, Fitting and Mounting. Hollow Metal Crowns. Preparation of Root End. Measurement. Banding and Capping. Soldering and Finishing. Fitting and Setting. Alloys for Plate and Solders. Construction of Dummies or Suspended Crowns and Jackets. Investing, Soldering and Finishing. Cementing in Place. Bridges: Permanent, Removable. Details of Construction.

Synopsis of Lectures on Dental Pathology and Therapeutics.

PROF. FLAGG.

GENERAL PRINCIPLES.—Life force. Principles and practice of Dentistry. Dental pathology and therapeutics. Elements of disease. Blood: Determination, Congestion. True inflammation. Results and terminations of inflammation.

DECIDUOUS TEETH.—Eruption. Pathological dentition. Remedies. Indications for extraction of deciduous teeth.

PERMANENT TEETH.—Eruption of. Pathological eruptions. Extraction of six-year molars.

DENTAL CARIES.—General and local causes. Periodicity of decay. Relative liability of teeth to decay. Positions for caries.

ODONTALGIA.—Causes of superficial caries. Simple caries. Deep-seated caries. Pulp capping. Absorption of permanent roots. Pulp nodules. Fungous gum. Fungous pulp.

COMPLICATED CARIES.—Devitalization of dental pulp. Extirpation of pulp. Extirpation of deciduous pulp.

EXOSTOSIS.—Exostosed teeth. Fused teeth. Attached teeth. Geminous teeth.

PERIODONTITIS.—Causes. Treatment.

ALVEOLAR ABSCESS.—Causes. Treatment.

CARIES AND NECROSIS.

PYORRHOEA ALVEOLARIS.—Peculiarities. Treatment.

MEDICAMENTS.—Powders, Pastes, Washes.

APPLIANCES AND SPECIAL INSTRUMENTS.

Synopsis of Lectures on Plastics.

PLASTIC FILLING.—History of Plastic Filling.

AMALGAM.—Attributes of metals for amalgam alloys. Making of alloys. Tests for amalgams. Preparation of cavities. Making of amalgam. Instruments for insertion of amalgam fillings. Insertion of amalgam fillings. General considerations pertaining to amalgam.

GUTTA PERCHA.—Materials composing Gutta Percha stoppings. Making, using, and value of these. Instruments and appliances for introducing Gutta Percha stopping.

OXY-CHLORIDE OF ZINC.—Sorel cement. Uses of Oxy-Chloride. Making of. Manipulation of. Value of. Whitening teeth.

OXY-SULPHATE.—Making of. Manipulation of. Uses of. Value.

ZINC PHOSPHATE.—Making of. Manipulation of. Various uses of. Value.

OXY-PHOSPHATE.—Making of.—Use of.

TEMPORARY STOPPING.—Making of. Various uses for. Manipulation of. Value.

TECHNICALITIES.—Nomenclature and peculiarities pertaining to Plastic work.

Lectures and Demonstrations, adjunctive to this chair, upon "Porcelain Dental Art," will be given by DR. INGLIS.

Synopsis of Lectures on Anæsthetics and Anæsthesia.

PROF. DORR.

Winter Course.

THE DISCOVERY AND CHEMISTRY OF ANÆSTHETICS.

THE DISCOVERY AND PHYSIOLOGICAL ACTION OF ANÆSTHESIA.

CONSIDERATION OF CHOICE OF ANÆSTHETICS FOR DIFFERENT CONDITIONS AND OPERATIONS.

LOCAL ANÆSTHETICS.—Their value and danger.

THE PREPARATION OF PATIENT, AND THE PROPER ADMINISTRATION OF ANÆSTHETICS.

UNFAVORABLE AND DANGEROUS CONDITION OF PATIENTS, AND THE VARIOUS METHODS OF RESUSCITATION.

PHYSICAL DIAGNOSIS, AND ITS APPLICATION TO DISEASES REQUIRING GREAT CARE IN THE USE OF ANÆSTHETICS, FOR EXAMPLE: Dilatation, Aortic and Mitral Regurgitations, Fatty Degeneration, Emphysema, Pneumonia and Tubercular Phthisis, Apoplexy and Diseases of the Kidneys.

Synopsis of Lectures on Chemical Physics, Chemistry and Materia Medica.

PROF. HOWELL.

MASS.—Molecule, Atom.

MOLECULAR MOTION.—Atomic.

MOTION.—Energy, Convertibility of Energy.

PROPERTIES OF MATTER.—Chemical and Physical, Impenetrability, Magnitude, Divisibility, Porosity, Compressibility, Cohesion, Adhesion.

STATES OF MATTER.—Solid, Liquid, Gaseous, Radiant.

MACHINES.—Levers, Planes, Wedge, Screw.

CAPILLARITY.

SPECIFIC GRAVITY.

METRIC SYSTEM.

Heat, nature of, Sensible Heat. Caloric. Latent Heat. Interior Energy. Expansion and Contraction. Thermometers. Pyrometers. The Use of the Thermometer in Disease. Boiling Point. Distillation. Sublimation. Solution. Solubility. Crystallization. Radiation of Heat. Conduction, convection, absorption. Specific Heat.

LIGHT.—Spectrum and Spectrum Analysis.

ELECTRICITY.—Static. Magnetism. Theory of the Galvanic Cell. Electric Currents. Forms of Cells. Care of Batteries. Ohm's Law. Induced Currents. Induction Coil. Magneto-Electricity. Galvano Magnetism. Thermo Electricity.

CHEMICAL PHILOSOPHY.—Atom. Molecule-Element. Compound Symbols. Writing Symbols. Atomic Weight. Quantivalence. Ariads and Perissads. Elemental Molecules. Compound Molecules. Law of Definite and Multiple Proportions. Binary Compounds. Radicals. Ternary Compounds. Acids. Bases. Salts. How to Write Formulæ. Nomenclature. Chemical Change. Reactions. Laws of Double Decompositions. Insoluble Substances. Chemical Equations. Inorganic Chemistry.

MONADS.—Hydrogen, Potassium, Sodium (Ammonium), Bromine, etc., and their compounds.

DYADS.—Barium, Calcium, Magnesium, Zinc, Cadmium, Sulphur, etc., and their Compounds, Amalgams, Dental Amalgams, Alloys.

TRIADS.—Bismuth, Gold, Antimony, Boron, Arsenicum, Phosphorous, Nitrogen and their Compounds, Refined Gold, Chemically Pure Gold, Crystal Gold, Sponge Gold, Beating Gold, Cohesive Gold, Corrugated Gold, etc.

TETRADES.—Aluminium, Cerium, Tin, Platinum, Palladium, Iridium, Silicon, Titanium, Carbon, etc., and their Compounds, Artificial Teeth, Enamels, Colors for Enamels.

HEXADS.—Manganese Iron, Nickel, etc., and their Compounds.

ORGANIC CHEMISTRY, HOMOLOGOUS AND ISOLOGOUS SERIES.—The Parafines (1st series), The Olefines (2d series), The Acetylenes (3d series), (the 4th series) Camphors, Resins, Gums and Balsams, Benzine series, Synthesis of Organic Compounds, Chloroform, Alcohols, Glycerine Carbohydrates, Sugars, Ethers, Organic Acids, Phenols, Organic Bodies containing Nitrogen, Alkaloids, Organic Bases, Dialysis, Soluble and Organized Ferments.

SALIVA.

MATERIA MEDICA AND THERAPEUTICS.—Pharmacy: Remedies and Medicines, Classification of Preparations, Prescription Writing, Administration of Medicines, Hypodermic use of Medicines, New Medicines, Test Papers for Dentists, Examination of Urine. Incompatibles. Poisons and their Antidotes.

Synopsis of Lectures on Physiology.

PROF. STELLWAGEN.

Preliminary Fall Course.

GENERAL INTRODUCTION TO PHYSIOLOGY AND NOMENCLATURE.

Winter Course begins October 1st.

THE THREE KINGDOMS OF NATURE.—The Mineral, Vegetable, and Animal.

CONSIDERATION OF LIFE.—Or vitality, compared with energy of *heat, light, etc.*

THE STUDY OF CELLS.—Their reproduction and growth. Their differences.

THE DEVELOPMENT, LIFE AND GROWTH of plants and animals.

FOOD.—Its classification and chemical composition. Its uses, and wherefrom the different kinds are obtained. How to prepare it. Diet and regimen.

PREHENSION.—The different organs used in the act, as muscle, bone, teeth, and mucous membrane. Skin and its appendages and functions, the Epitheliums.

DEVELOPMENT of these organs.

DEVELOPMENT of Enamel, Dentine and Cementum.

DIGESTION.—In the mouth: mastication and the action of saliva. The senses of taste and smell. Deglutition.

DIGESTION.—In the stomach: its structure, glands, and the gastric juice.

DIGESTION.—In the intestines: their structure, glands, juices.

ASSOCIATE ORGANS.—The Bile, Pancreatic juice and Succus Entericus.

ABSORPTION.—Where performed, and the organs interested. The chyle, the lymph, and the vessels that convey these fluids.

ASSIMILATION.—The appropriation of the materials by the cells and tissues.

EXCRETION.—The organs that accomplish these functions. The purification of the tissues and the manner in which the waste matters are thrown off.

BLOOD.—Its constituents, formation, and functions. The globules: their functions, etc.

BLOOD.—Its circulation, and the organs that effect this: the heart, arteries, capillaries, and veins.

RESPIRATORY APPARATUS.—The lungs, oxygenation of the blood and the manner in which they effect it.

NERVOUS MATTER.—The Grey and White, their histology and functions.

NERVOUS SYSTEMS.—Their divisions, functions, and relations.

NERVES OF SENSATION AND MOTION.—Their histology and functions.

THE SPINAL CORD.—Its structure and functions.

THE COLUMNS OF THE SPINAL CORD.—Their relations and functions.

THE SPINAL NERVES.—Their origin, distribution and functions.

THE SYMPATHETIC NERVOUS SYSTEM.—Its structure and functions.

THE BRAIN.—Its structure and its various centers, together with their functions.

THE CEREBELLUM.—Its structure, relations and functions.

THE MEDULLA OBLONGATA.—Its structure and functions.

EMBRYOLOGY.—The development and growth of the ovum.

Synopsis of Lectures on Anatomy and Surgery.

Preliminary Fall Course. (September.)

PRESCRIPTION WRITING—PROF. GARRETSON.

Winter Course begins October 1.

FRESHMEN.

GENERAL AND MINUTE ANATOMY OF THE HEAD, } —DR. CRYER.
SURGICAL ASSOCIATIONS.

INFLAMMATION,—PROF. GARRETSON.

FRESHMEN AND JUNIORS.

GENERAL ANATOMY.—DR. BOENNING.

STUDIES IN GENERAL SURGERY.—PROF. GARRETSON.

JUNIORS AND SENIORS.

CLINICAL STUDIES,— { PROF. GARRETSON.
DR. BOENNING.
DR. CRYER.

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